FIRE ALARM	I DEVICE LEGEND
SYMBOLS	DESCRIPTION
FACP	FIRE ALARM CONTROL PANEL
FAA	FIRE ALARM ANNUNCIATOR
FAPS	FIRE ALARM POWER SUPPLY
FATC	FIRE ALARM TERMINAL CABINET
•	HEAT DETECTOR
(3)	SMOKE DETECTOR
<u> </u>	BELL
Ю	DOOR HOLDER
<u></u>	DUCT SMOKE DETECTOR
F	MANUAL PULL STATION
FSD	FIRE SMOKE DAMPER (F.B.O.)
ММ	MONITOR MODULE
RTS	REMOTE TEST STATION
Ş—X— PIV	POST INDICATOR VALE (F.B.O.)
SK	FIRE ALARM SPEAKER
X	STROBE ALARM LIGHT
×	STROBE ALARM LIGHT - WALL MOUNTED
, , , , , , , , , , , , , , , , , , ,	TAMPER SWITCH
→	WATERFLOW SWITCH
-{	END OF LINE RESISTOR
1	WALL MOUNT
②X(SMOKE DETECTOR SINGLE STATION (120VAC), W/INTEGRAL 177CD STROBE

DOUBLE CHECK VALVE (F.B.O.)

8 4 8

SCOPE OF WORK OCCUPANCY TYPE: R-2 SPRINKLER PROTECTION: BUILDING IS FULLY SPRINKLED PROVIDE AND INSTALL A NEW REMOTE SUPERVISING STATION FIRE ALARM SYSTEM AS SHOWN ON THE DRAWINGS WHICH SHALL PROVIDE: FIRE SPRINKLER SYSTEM MONITORING PUBLIC AREA SMOKE DETECTION RESIDENCE UNIT SMOKE DETECTION MAGNETIC DOOR HOLD OPEN DEVICES COMMON AREA NOTIFICATION DEVICES WHICH SHALL PRODUCE A SOUND LEVEL 15dB ABOVE AMBIENT SOUND LEVEL OR 5dB ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION OF AT LEAST 60 SECONDS, WHICHEVER IS GREATER, MEASURED 1.5M (5-FT) ABOVE THE FLOOR IN THE OCCUPIED AREA, USING THE A-WEIGHTED SCALE (dBA). RESIDENTIAL UNIT NOTIFICATION DEVICES WHICH SHALL PRODUCE A SOUND LEVEL 15dB ABOVE AMBIENT SOUND LEVEL OR 5dB ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION OF AT LEAST 60 SECONDS WHICHEVER IS GREATER AT THE PILLOW LEVEL IN THE OCCUPIED AREA, USING THE A-WEIGHTED ALARM, TROUBLE, AND SUPERVISORY SIGNALS SHALL BE TRANSMITTED TO A REMOTE SUPERVISING STATION. APPLICABLE CODES AND STANDARDS ● 2016 INTERNATIONAL BUILDING CODE ● 2016 INTERNATIONAL RESIDENTIAL CODE ● 2016 UNIFORM MECHANICAL CODE 2016 UNIFORM PLUMBING CODE ● 2016 NATIONAL ELECTRICAL CODE ◆ 2016 INTERNATIONAL FIRE CODE • 2016 INTERNATIONAL PROPERTY MAINTENANCE CODE ● 2016 NFPA 72

												SYSTEM C	UTPUT	S										
SYSTEM OPERATIONAL INPUT SIGNALS AND OUTPUT FUNCTIONS	ACTUATE PANEL ALARM SIGNAL INDICATOR (RED LED)	ACTUATE PANEL ALARM SIGNAL AUDIBLE ALARM BUZZER)	ACTUATE PANEL TROUBLE SIGNAL NDICATOR (AMBER LED)	ACTUATE PANEL TROUBLE SIGNAL AUDIBLE (TROUBLE BUZZER)	ACTUATE PANEL SUPERVISORY SIGNAL NDICATOR (AMBER LED)	ACTUATE PANEL SUPERVISORY SIGNAL AUDIBLE (SUPERVISORY BUZZER)	ACTUATE REMOTE ANNUNCIATOR ALARM SIGNAL INDICATOR (RED LED)	ACTUATE REMOTE ANNUNCIATOR ALARM SIGNAL AUDIBLE (ALARM BUZZER)	ROUBLE SIGNAL INDICATOR (AMBER) FO)	ACTÚATE REMOTE ANNUNCIATOR TROUBLE SIGNAL AUDIBLE (TROUBLE BUZZER)	ACTUATE REMOTE ANNUNCIATOR SUPERVISORY SIGNAL INDICATOR (AMBER LED)	ACTUATE REMOTE ANNUNCIATOR SUPERVISORY SIGNAL AUDIBLE (SUPERVISORY BUZZER)	NDICATE INPUT SIGNAL ON PANEL'S LCD	ACTIVATE PUBLIC AREA AUDIBLE NOTIFICATION DEVICES	ACTIVATE PUBLIC AREA VISUAL NOTIFICATION DEVICES (ZONE OF ALARM ONLY)	ACTIVATE RESEDENTIAL UNIT AUDIBLE NOTIFICATION DEVICE	ACTIVATE RESEDENTIAL UNIT VISUAL NOTIFICATION DEVICE	ACTIVATE FIRE SPRINKLER BELL	CLOSE ALL FSD'S ASSOCIATED WITH AIR HANDLING UNIT	SHUTDOWN ASSOCIATED AIR HANDLING	TRANSMIT ALARM SIGNAL TO CENTRAL MONITORING STATION	TRANSMIT TROUBLE SIGNAL TO CENTRAL MONITORING STATION	TRANSMIT SUPERVISORY SIGNAL TO CENTRAL MONITORING STATION	RELEASE MAGNETIC DOOR HOLD-OPENS
MANUAL BOX (PULL STATION)	X	X	વુઃ=	a a	Q =	Q Q	X	X			400	400	X	X	X	X	42	N.		ري اران	X			3 6 6
COMMON AREA SMOKE DETECTOR	Х	х			i i		х	х			*		х	х	х	х					х			x
RESIDENT BEDROOM SMOKE DETECTOR					Х	Х					Х	х	Х			х	Х						х	
WATERFLOW SWITCH	Х	Х					Х	х					Х	Х	Х	х		Х			Х			Х
VALVE TAMPER SWITCH	9800	3 SHOW			Х	Х	13.0	53.03			Х	х	Х	1 1000	8027	\$9000	6	2000		t d		in .	Х	
DUCT DETECTOR AT FSD					Х	Х					Х	Х	Х		5)		Y		Х	Х		i i	Х	Î
DUCT DETECTOR AT AHU					Х	Х					Х	Х	Х						Х	Х				
LOSS OF AHU AIR FLOW (SUPPLY OR RETURN)					Х	Х					Х	х	Х						Х					
LOSS OF 120 VOLT POWER			Х	Х					Х	Х			Х			_						Х		Х
INITIATING CIRCUIT: STYLE-B (CLASS-B)																								
OPEN WIRE			Х	Х					Х	Х			Х									Х		1
* SINGLE GROUNDED WIRE			Х	Х					Х	Х			Х									Х		
SHORTED WIRE	Х	Х					Х	Х				i i	Х	Х		Х					Х			ad t
NOTIFICATION CIRCUIT: STYLE-Y (CLASS-B)	3	9)				(I) =					-		22.		
OPEN WIRE			Х	Х					Х	Х			Х									Х		
* SINGLE GROUNDED WIRE			Х	Х					Х	Х			Х									Х		
SHORTED WIRE			Х	Х					Х	Х			Х									X		
SIGNALING LINE CIRCUIT: STYLE-4 (CLASS-B)												, si												
OPEN WIRE			Х	Х					Х	Х		1	Х							1		Х		
* SINGLE GROUNDED WIRE			Х	Х					Х	Х			Х									Х		
WIRE TO WIRE SHORT AND OPEN			Х	Х					Х	Х			Х									Х		
WIRE TO WIRE SHORT AND GROUND			Х	Х					Х	Х			Х									Х		42-
OPEN AND GROUND			Х	Х					Х	Х		ă.	Х									Х		
LOSS OF CARRIER			Х	Х					Х	Х			Х									Х		
FIRE ALARM SYSTEM LOW BATTERY			Х	Х					Х	Х			Х									×		

FIRE ALARM SYSTEM LOW BATTERY

* = ALARM RECEIPT CAPABILITY DURING ABNORMAL CONDITION IS REQUIRED

AMERICANS WITH DISABILITIES ACT (ADA)

• ARCHITECTURAL BARRIERS ACT (ABA)

FIRE ALARM SHEET LIST SHEET NAME FIRE ALARM COVER SHEET FIRE ALARM - SITE PLAN FIRE ALARM - LEVEL 1 NORTH WING

FA202 FIRE ALARM - LEVEL 1 WEST WING
FA301 FIRE ALARM - RISER DIAGRAM
FA401 FIRE ALARM - DETAIL SHEET
FA402 FIRE ALARM - DETAIL SHEET
FA403 FIRE ALARM - DETAIL SHEET

SHEET NUMBER

FIRE ALARM WIRE LEGEND*

	JIZIAN AAILZE	LLOLIND	
NO. OF	OIZE AVAGO	T)/DE	1105
CONDUCTORS	SIZE AVVG	TYPE	USE
2	18	FPLR	SLC
2	12	THHN	STROBE
2	16	FPL**	SPEAKER
2	14	FPL	24VDC
2	18	FPL**	EIA-485
2	18	FPL	HVAC UNIT CONTROL
2	12	THHN	FSD CONTROL
2	14	FPL	DOOR HOLD
2	18	FPL	MONITOR POINT
2	16	FPL**	NETWORK
4	18	FPL	REMOTE INDICATOR
2	18	FPL	STROBE SYNC RISER
2	18	FPL	DIGITAL AUDIO
	NO. OF CONDUCTORS 2 2 2 2 2 2 2 2 2 2 4 2	NO. OF CONDUCTORS SIZE AWG 2 18 2 12 2 16 2 14 2 18 2 18 2 12 2 18 2 18 2 18 2 12 2 16 4 18 2 18 2 18 2 18 2 19 3 19 4 18 5 18	CONDUCTORS SIZE AWG TYPE 2 18 FPLR 2 12 THHN 2 16 FPL** 2 14 FPL 2 18 FPL** 2 18 FPL 2 12 THHN 2 14 FPL 2 18 FPL 2 16 FPL** 4 18 FPL 2 18 FPL

* THE CONTRACTOR IS RESPONSIBLE FOR SUPPLYING THE CORRECT CABLES AND QUANTITIES OF CABLES FOR THE BRAND OF FIRE ALARM LIFE SAFETY SYSTEM THAT THEY ARE PROPOSING.

** CONFIRM MANUFACTURERS CABLE REQUIREMENTS. USE SHIELDED CABLE IF REQUIRED.

		LEGEND OF ABBREVIATIONS
(N)	ā	NEW
(E)	-	EXISTING
(X)	9	REMOVE
(R)	-	REPLACE
(RR)	-	REMOVE AND REINSTALL
A.F.F.	-	ABOVE FINISHED FLOOR
AC	-	ABOVE CEILING
AOR	- 5	AREA OF REFUGE
EOLR	-	END OF LINE RESISTOR
UF	-	UNDER FLOOR
U.O.N.	-8	UNLESS OTHERWISE NOTED
NAC		NOTIFICATION APPLICANCE CIRCUIT
SLC	-	SIGNAL LINE CIRCUIT
PIV	-	POST INDICATOR VALVE
OS&Y	-	OUTSIDE STEM AND YOKE VALVE
N.T.S.	-	NOT TO SCALE
DCV	-	DOUBLE CHECK VALVE
PB	-	PULL BOX

DPS - DAMPER POSITION SWITCH

GENERAL NOTES

- ALL REQUIREMENTS OF CONTRACT SPECIFICATIONS AND DRAWINGS APPLY.
- INSTALLATION SHALL CONFORM TO ALL REQUIREMENTS OF APPLICABLE ELECTRICAL CODES.
- WIRING METHODS AND MATERIALS SHALL CONFORM WITH ALL APPLICABLE SECTIONS OF NEC ARTICLE 760.
- . 120VAC INPUT POWER FOR FIRE ALARM CONTROLS SHALL BE A DEDICATED, LOCKING CIRCUIT BREAKER PROPERLY LABELED "FACP". LABEL SHALL BE RFD.
- 120VAC IS NOT PERMITTED IN SAME CONDUIT WITH LOW VOLTAGE WIRING.
- SMOKE DETECTORS SHALL NOT BE INSTALLED UNTIL FINAL CLEANING HAS BEEN COMPLETED UNLESS APPROVED BY THE AUTHORITY HAVING
- CONDUIT AND JUNCTION BOXES ARE DIAGRAMMATIC ONLY. EXACT LOCATION MAY VARY DUE TO FIELD CONDITIONS. ACTUAL INSTALLATION LOCATIONS SHALL BE DETERMINED BY THE INSTALLING CONTRACTOR.
- NOTIFICATION DEVICE CIRCUIT WIRE RUN LENGTHS ARE CRITICAL. ANY INCREASE IN LENGTH OF WIRE MAY AFFECT CIRCUIT CONFIGURATION/VOLTAGE DROP.
- DO NOT LOCATE SMOKE DETECTORS WITHIN THREE (3) FEET OF SUPPLY AIR VENTS.
- 10. THE FIRE ALARM SYSTEM SHALL CONFORM TO THE 2010 EDITION OF NFPA 72 AND THE 2012 EDITION OF NFPA 101.
- UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE AUTHORITY HAVING JURISDICTION.
- 12. A MINIMUM OF 48 HOURS NOTICE SHALL BE REQUIRED FOR ANY INSPECTION AND/OR TESTING.
- 13. ALL DEVICES OF THE FIRE ALARM SYSTEM SHALL BE APPROVED AND LISTED FOR USE BY THE AUTHORITY HAVING JURISDICTION.
- 4. A STAMPED SET OF APPROVED FIRE ALARM PLANS SHALL BE ON THE JOB AND USED FOR INSTALLATION. ANY DEVIATION FROM APPROVED PLANS, INCLUDING THE SUBSTITUTION OF DEVICES, SHALL BE APPROVED BY THE AUTHORITY HAVING JURISDICTION.
- 15. A CERTIFICATE OF COMPLIANCE SHALL BE PREPARED BY THE INSTALLING CONTRACTOR AND GIVEN TO THE AUTHORITY HAVING JURISDICTION UPON COMPLETION OF THE INSTALLATION.
- 16. ALL RISER WIRING SHALL BE IN CONDUIT. WALL PENETRATIONS SHALL USE APPROVED PENETRATION METHODS.
- 17. THESE DRAWINGS DEPICT GENERAL LOCATIONS OF LIFE SAFETY EQUIPMENT AND FIELD DEVICES.
- 18. SHOULD ANY CONDITIONS EXIST THAT DIFFER FROM WHAT IS INDICATED ON THESE DRAWINGS WHICH CAUSE MAJOR DEVIATIONS IN THE WORK SHOWN, THE CONTRACTOR SHALL CONTACT THE DESIGNER IN A TIMELY MANNER SO AS NOT TO IMPAIR THE PROJECT SCHEDULE.
- 19. THE CONTRACTOR IS RESPONSIBLE FOR MAKING AND OBTAINING APPROVAL FOR ALL NECESSARY ADJUSTMENTS IN CIRCUITING AS REQUIRED TO ACCOMMODATE THE RELOCATION OF EQUIPMENT AND/OR DEVICES WHICH ARE AFFECTED BY ANY AUTHORIZED CHANGE. ALL CHANGES SHALL BE CLEARLY INDICATED ON THE RECORD DRAWINGS.
- 20. THE CONTRACTOR SHALL MAINTAIN ALL AREAS OF THE BUILDING IN A NEAT WORKMAN LIKE MANNER.
- 21. DO NOT APPLY POWER EXCEPT IN THE PRESENCE OF A FACTORY TRAINED TECHNICAL REPRESENTATIVE.
- 22. THE CONTRACTOR SHALL MAINTAIN THE FIRE RESISTANCE INTEGRITY OF ALL WALL, CEILING, AND ROOF ASSEMBLIES THAT ARE ALTERED AS A RESULT OF THE CONTRACTORS WORK, AND ANY TIME WORK IS NOT BEING ACTIVELY PERFORMED.

INSTALLATION NOTES

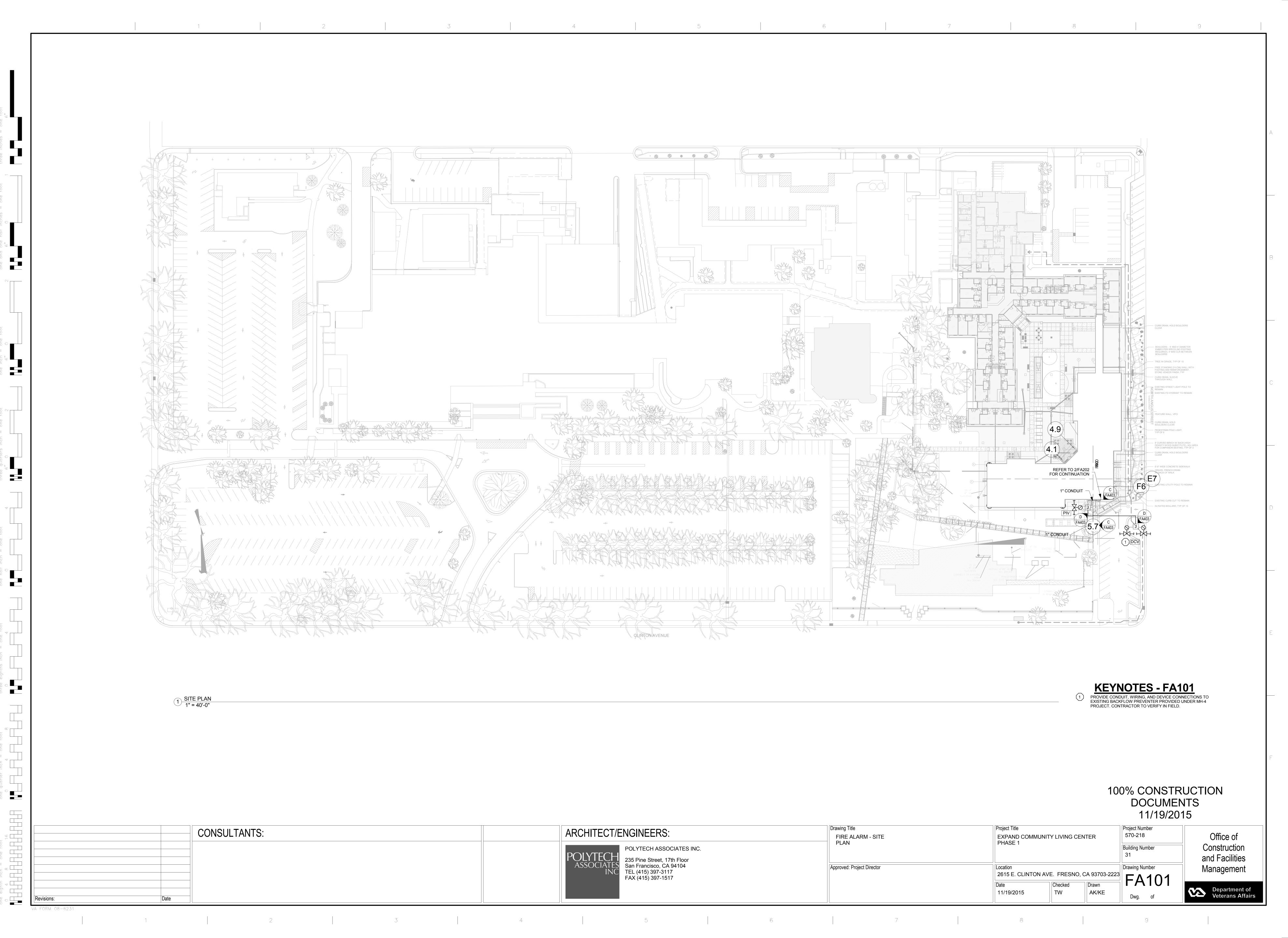
- 1. ALL FIRE ALARM WIRING SHALL BE INSTALLED, PER NEC REQUIREMENTS.
- 2. INSTALLATION SHALL CONFORM TO MANUFACTURER'S WIRING SPECIFICATIONS FOR OPTIMAL SYSTEM OPERATION.
- 3. ONE CIRCUIT OF DEDICATED 120VAC POWER SHALL BE PROVIDED AT EACH ALARM PANEL LOCATION. SEE ELECTRICAL DRAWINGS FOR SPECIFIC CIRCUIT
- 4. ANY NEW WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE. THE CONTRACTOR SHALL NOT INTERMIX ANY HIGH VOLTAGE POWER WIRES (120VAC) WITH ANY SIGNAL OR CONTROL WIRES IN ANY CONDUIT.
- 5. ALL WIRES SHALL BE CONNECTED IN A UNIFORM MANNER. TRANSPONDING OR CHANGING OF COLOR CODES SHALL NOT BE PERMITTED.
- 6. ALL PULL AND JUNCTION BOXES SHALL BE PROVIDED WITH BLANK COVERS. OUT DOOR INSTALLED BOXES AND CONDUIT SHALL BE WEATHERPROOF TYPE.
- 7. ALL ROUTES OF WIRING ARE DIAGRAMMATIC, CONTRACTOR TO FIELD VERIFY EXACT ROUTING.
- 8. THE CONTRACTOR SHALL UNDERTAKE THE WORK IN ITS ENTIRETY IN ACCORDANCE WITH ITS DESIGN AND PURPOSE. ALL WORK SHALL BE CARRIED OUT IN A PROFESSIONAL MANNER WITH MAXIMUM EFFICIENCY AND EXCELLENT WORKMANSHIP.
- 9. IT IS UNDERSTOOD THAT THE CONTRACTOR HAS READ AND UNDERSTOOD FULLY THE PLANS, SPECIFICATIONS, AND ALL RELATED DOCUMENTS ON THIS PROJECT, AND IS WELL FAMILIAR WITH SITE CONDITIONS.
- 10. ALL CONDUIT IS 3/4-INCH MINIMUM UNLESS OTHERWISE NOTED.

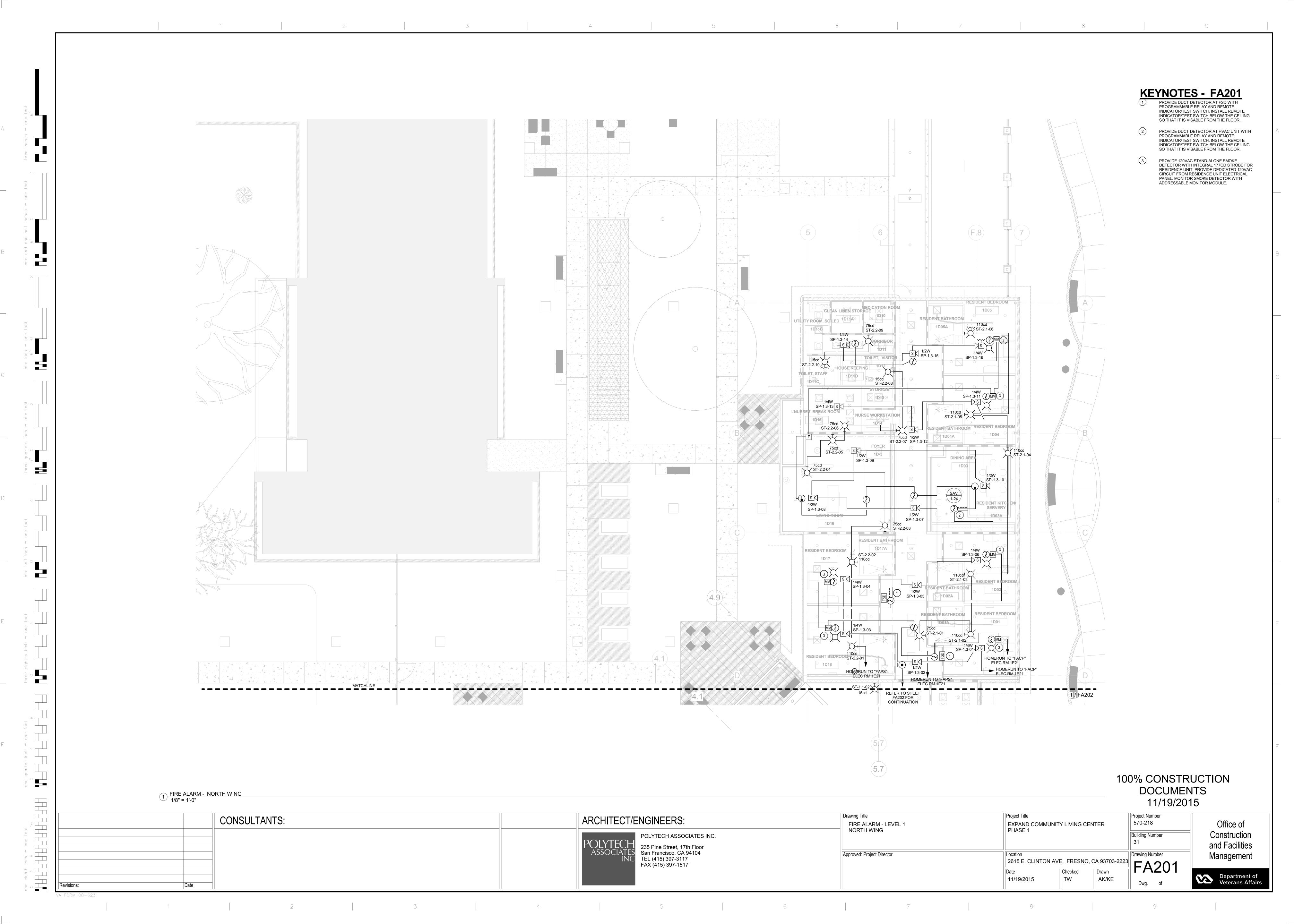
 11. FIRE ALARM CIRCUITS EXTENDING REVOND ONE BUILDING AND BUILD.
- 11. FIRE ALARM CIRCUITS EXTENDING BEYOND ONE BUILDING AND RUN OUTDOORS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NEC), ARTICLES 760, 770, 725, AND 800 WHERE APPLICABLE.
- 12. ALL WIRING, INCLUDING SHIELDS MUST BE DRY AND FREE OF SHORTS AND GROUNDS.
- 13. ALL SHIELDED WIRE MUST HAVE SHIELD CONTINUITY THROUGHOUT THE FULL LENGTH OF THE WIRE/CABLE.
- 14. MAINTAIN 40% CONDUIT FILL RATIO PER NEC REQUIREMENTS.
- 15.CONNECT FIRE/SMOKE DAMPERS TO THE APPROPRIATE FIRE ALARM RELAY AS NOTED ON THE PLANS. REFER TO MECHANICAL DRAWINGS FOR FIRE/SMOKE DAMPER LOCATIONS.
- 16.POWER LIMITED CIRCUITS SHALL NOT BE INSTALLED IN THE SAME CABLE OR RACEWAY WITH CLASS 2 OR CLASS 3 AUDIO CIRCUITS PER CEC 760.56(O).
- 17. POWER LIMITED CIRCUITS SHALL BE SEPARATED FROM ELECTRIC LIGHT, POWER, CLASS 1, NON POWER LIMITED, AND MEDIUM POWERED BROADBAND COMMUNICATIONS CIRCUITS BY METAL BARRIER OR RACEWAY.

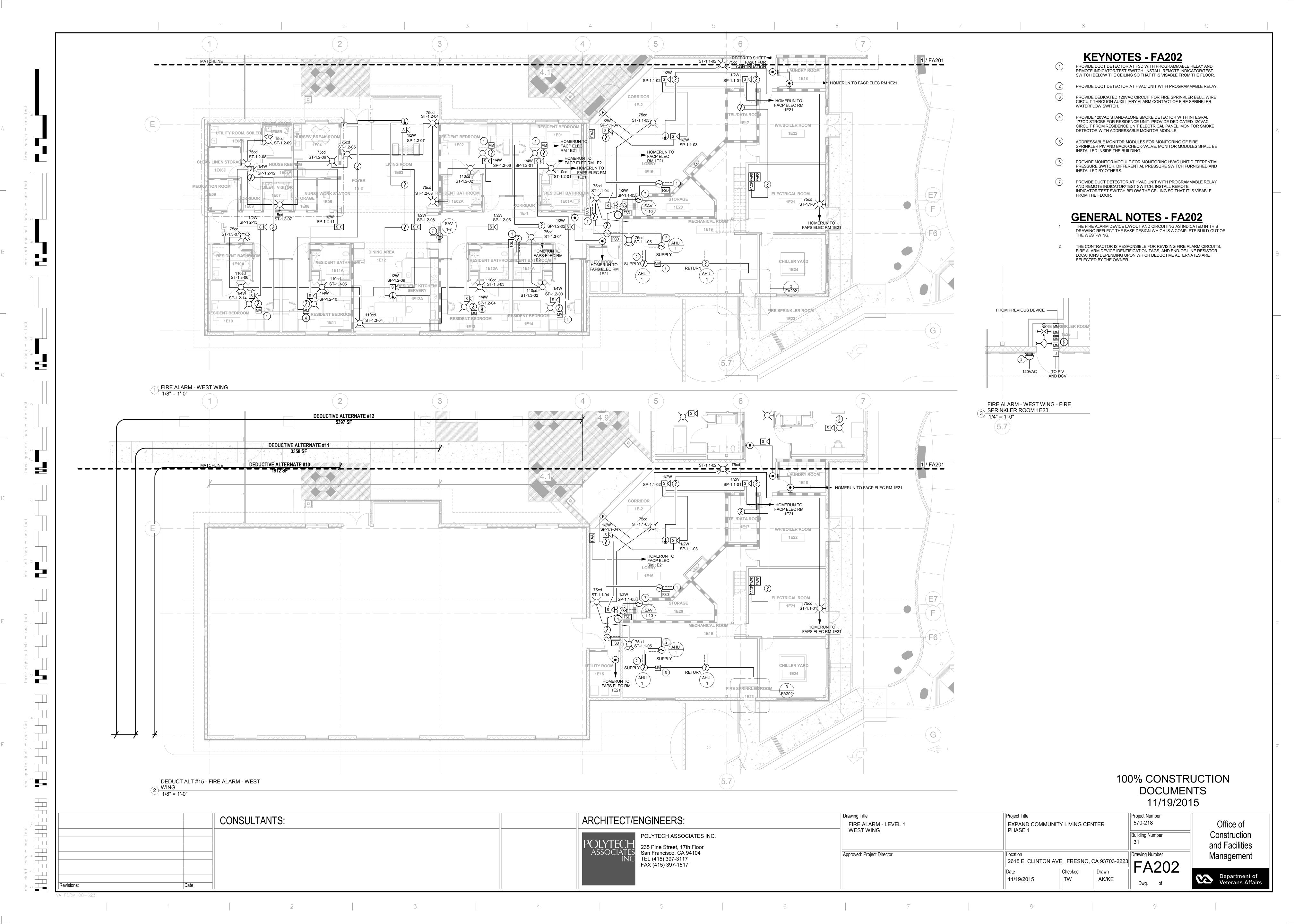
100% CONSTRUCTION DOCUMENTS 11/19/2015

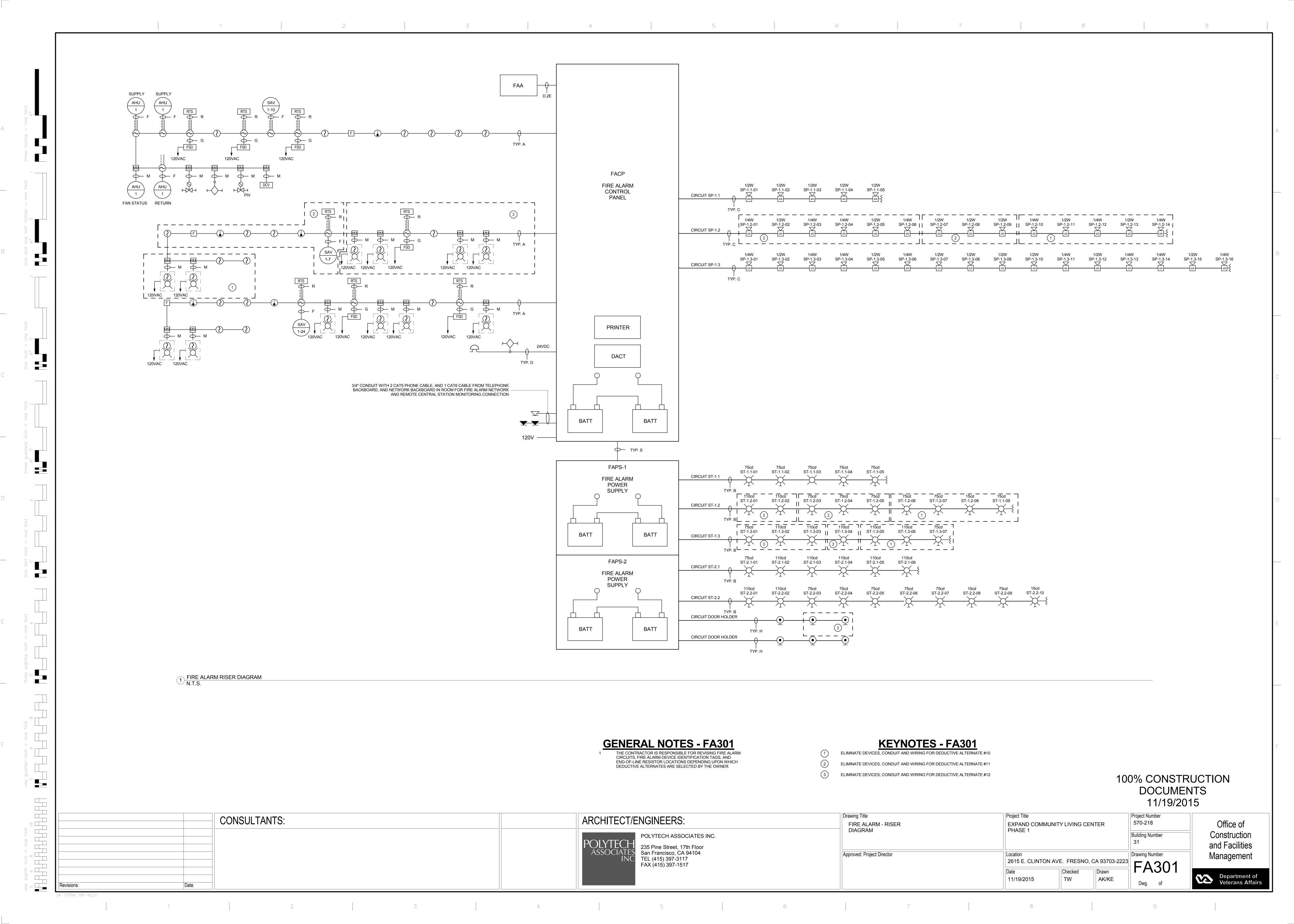
Drawing Title Project Number Project Title CONSULTANTS: ARCHITECT/ENGINEERS: 570-218 Office of FIRE ALARM COVER EXPAND COMMUNITY LIVING CENTER Construction POLYTECH ASSOCIATES INC. **Building Number** and Facilities 235 Pine Street, 17th Floor San Francisco, CA 94104 TEL (415) 397-3117 FAX (415) 397-1517 Approved: Project Director Drawing Number Management 2615 E. CLINTON AVE. FRESNO, CA 93703-2223 FA001 Checked Department of Veterans Affairs AK/KE 11/19/2015 Dwg.

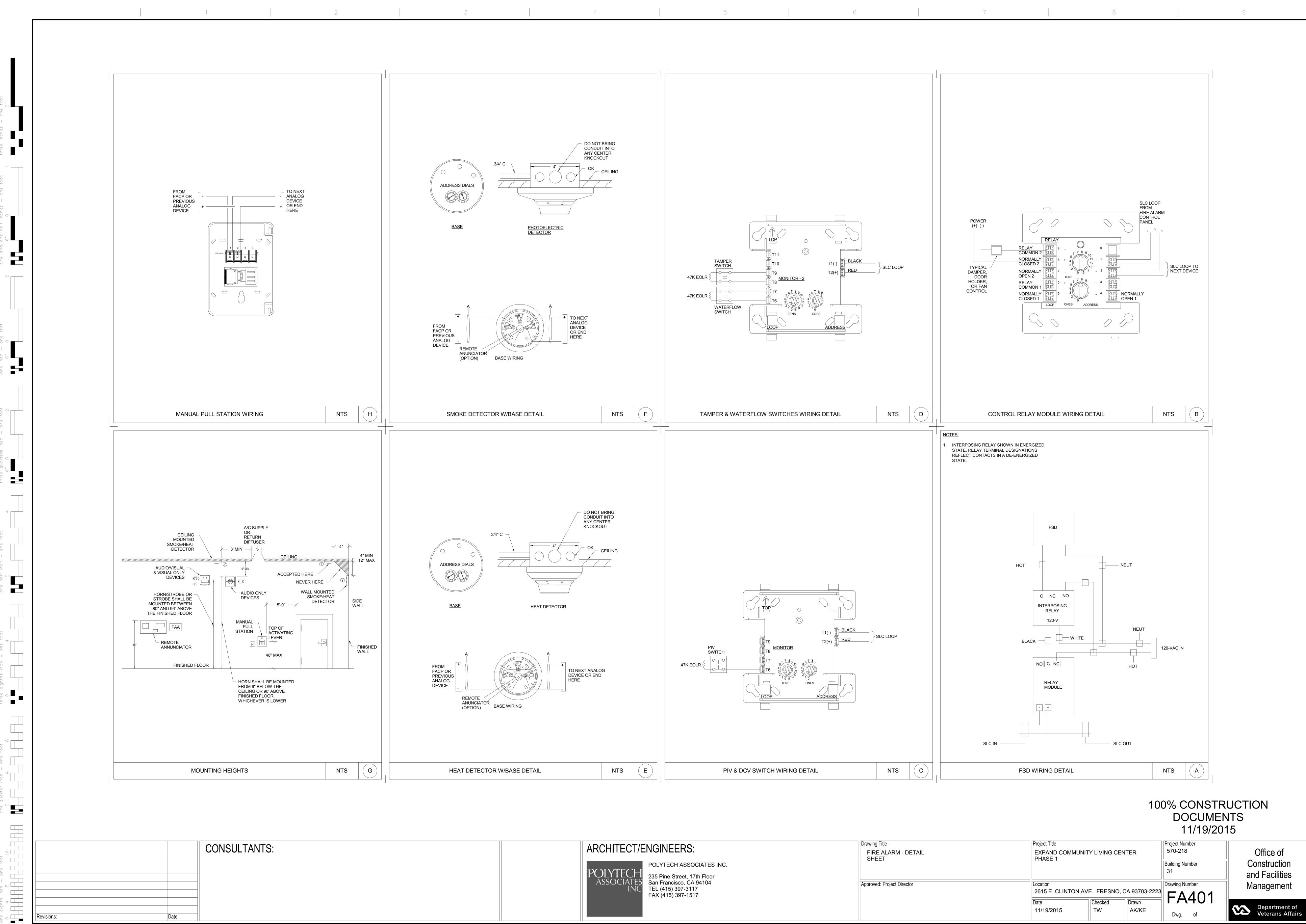
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